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Ocean Freight

Dictionary, Containertypes and Dimensions

Specialized Ocean Freight Terminology

BAF	Bunker Adjustment Factor = surcharge/ discount on the Ocean Freight rate to offset the oil price – either a fixed sum per TEU or in percent
Barge	Standardized large floating container
B/L	Bill of Lading
Bond	Above all in the USA region – single entry bonds and continuous bonds are a form of ecurity or guarantee that customs duty is paid in the USA
Break Bulk	Non-containerized shipping of goods; goods are loaded on conventional ships or Ro/Ro ships
CAD	Cash Against Delivery = clause stipulating that the agreed payment is to be made after certain documents (generally bill of lading) are handed over
CAF	Currency Adjustment Factor used to calculate a surcharge or discount on the Ocean Freight rate
CFS	Container Freight Station = container loading and unloading point for LCL shipments
C.O.D.	Cash On Delivery
Conges-tion Surcharge	Surcharge on Ocean Freight rate for mooring fees in the port if it is “congested”; generally a fixed amount per TEU or W/M
CSC	Container Service Charge (also see THC)
CY	Container Yard = delivery or reception point for full FCL containers or empty containers
Demurrage	Mooring fee if agreed loading or unloading time is exceeded
Detention	Charge for the late return of containers

ETA	Estimated Time of Arrival
ETS/ETD	Estimated Time of Sailing/Estimated Time of Departure
FCL/FCL	Full Container Load = container from one sender to one recipient
FCL/LCL	One sender but more than one recipient per container; the container is unloaded at the CFS in the destination port or destination country
Feeder Service	Feeder service between secondary ports or smaller ports and main ports
Compulsory Prepayment	In certain regions, the maritime shipper or Air Freight carrier only agrees to transport the goods following payment at the port/place of departure
Freight Prepaid	Sender or supplier pays for freight transport in advance
Freight Collect	The buyer pays for freight transport when he receives the goods
Full set	Full set of original B/L, generally 3/3
G/A	General Average = accident of a ship at sea
Gross Weight	Weight of goods including packaging
I.C.C.	Institute Cargo Clauses = general insurance terms for goods transport
IFP	see BAF
IMDG	International code issued by the IMO governing the maritime shipping of dangerous goods; generally in conformance with the German GGVS regulations
IMO	International Maritime Organization = an advisory international maritime shipping organization whose mission is to improve shipping safety

In bond	Duty-unpaid goods under customs bond
L/C	Letter of Credit
LCL/FCL	More than one sender but one recipient per container – the container is loaded at the CFS in the country or port of departure and shipped right through to the recipient
LCL/LCL	Less than Container Load = general cargo consignments shipped by (consolidated) container transport from CFS to CFS
M/M	Minimum freight
NVOCC	Non Vessel Operating Common Carrier = transport company/carrier who undertakes to transport goods by sea without owning his own ships; frequently found in the LCL/LCL segment; NVOCC bills of lading are fully bankable
Payload	Weight of goods loaded into a container
Sea waybill/Express B/L	Sea waybill for which no originals are created; not negotiable like the B/L - allows rapid and problem-free delivery of goods in the destination port; cannot be used in all regions; is not used in the case of letters of credit
SMA	Security Manifest Amendment fee
SMD	Security Manifest Documentation fee
Stripping	Unloading of (consolidated) containers
Stuffing	Loading of a container
TEU	Twenty feet Equivalent Unit, 20' ISO unit
THC	Terminal handling charges
TLC	Three Letter Code. Every airport has a code comprising three letters: e.g.: FRA = Frankfurt, CGN = Cologne, VIE = Vienna
ULD	Unit Load Device (e.g. container, pallet, etc.)

VAT	Value Added Tax
W/M	Weight/Measurement, freight rates per 1,000 kg or per 1,000 cbm at discretion of shipper per package – i.e. shipper has the right to charge the highest freight fee

			Actual weight	FRT
1 crate	200 x 200 x 200 cm	8.000 cbm	5,000 kg	8.000
1 crate	300 x 100 x 100 cm	3.000 cbm	5,000 kg	5.000
1 pallet	120 x 100 x 100 cm	1.200 cbm	500 kg	1.200
Total		12.200 cbm	10,500 kg	14.200

Rate EUR 100 W/M x 14.200 FRT = Ocean freight 1,420 EUR

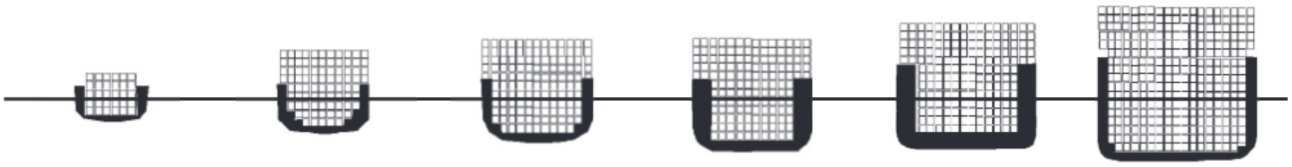
Conversion chart

Metric	US	US	Metric
1 cm	0.3937 inches	1 inch	2.54 cm
1 m	3.281 feet	1 foot	0.305 m
1 m	1.094 yards	1 yard	0.914 m
1 g	0.0353 ounces	1 ounce	28.35 g
1 kg	2.205 pounds	1 pound	0.4536 kg
1,000 kg	1.102 short tons	1 short ton	908 kg
1 cm^2	0.061 sq-inches	1 sq-inch	16.3873 cm^2
1 m^2	35.3134 sq-feet	1 sq-foot	0.0283 m^2
1 m^2	1.3079 sq-yards	1 sq-yard	0.765 m^2
1 km	0.621373 miles	1 mile	1.60934 km

Details for Ocean Freight

Trends in Vessels

	1st Generation	2nd Generation	3rd-4th Generation	PostPanMax	5th Generation	Suezmax	Triple E' Class
TEU	1,000	2,000	3,000-5,000	5,000-6,000	6,000-7,000	ca. 12,000	ca. 18,000
Draft	10 m	11.5 m	12.5 m	13.5 m	13-14.5 m	15 m	16 m
Width	28 m	28 m	32.2 m	39.2-42 m	42.8 m	58 m	59 m



Container Stowage Plan

20' Box Container
10 pallets (each 1.20 x 1.00 m basic measurement)

40' Box Container
21 pallets (each 1.20 x 1.00 m basic measurement)

20' Box Container
11 pallets (each 1.20 x 0.80 m basic measurement)

40' Box Container
24 pallets (each 1.20 x 0.80 m basic measurement)

Details for Ocean Freight

Container dimensions (all figures in m)

Container size	Door width	Door height	Roof opening	Inner length	Inner width	Inner height	Use
20' Box	2.28 - 2.32	2.27 - 2.29		5.88 - 5.90	2.33 - 2.35	2.36 - 2.39	General goods
40' Box	2.28 - 2.33	2.27 - 2.29		11.96 - 12.00	2.33 - 2.35	2.36 - 2.39	General goods
40' High Cube	2.28 - 2.34	2.58 - 2.59		12.00 - 12.02	2.33 - 2.35	2.67 - 2.69	Long and heavy goods
20' Reefer	2.26 - 2.28	2.20 - 2.22		5.42 - 5.48	2.26 - 2.29	2.21 - 2.23	Goods requiring a constant temperature above/below freezing point; controlled fresh air supply
40' Reefer	2.26 - 2.29	2.17 - 2.20		11.56 - 11.57	2.26 - 2.29	2.20 - 2.20	Goods requiring a constant temperature above/below freezing point; controlled fresh air supply
40' Reefer Cube	2.26 - 2.29	2.40 - 2.43		11.56 - 11.60	2.26 - 2.29	2.48 - 2.51	Goods requiring a constant temperature above/below freezing point; controlled fresh air supply
20' Open Top	2.28 - 2.33	2.27	2.21 x 5.43	5.88 - 5.90	2.33 - 2.34	2.35	Overheight goods, loading from above/side possible
40' Open Top	2.28 - 2.33	2.27	2.21 x 11.57	11.96 - 12.02	2.33 - 2.34	2.35 - 2.37	Overheight goods, loading from above/side possible
20' Hardtop	2.34	2.28		5.89	2.34	2.38	Heavy and high goods
40' Hardtop	2.34	2.29		12.02	2.34	2.39	Heavy and high goods
20' Flat				5.70	2.26	2.24	Heavy and extra-wide goods
40' Flat				11.83	2.22	1.98	Heavy and extra-wide goods
20'/40' Platform				6.06 / 12.19	2.44		Heavy and extra-wide goods
20' Ventilated	2.34	2.29		5.99	2.32	2.39	For goods requiring ventilation
20'/40' Insulated	2.29	2.07		5.72 / 11.84	2.29 / 2.29	2.01 / 2.12	Goods requiring a constant temperature above/below freezing point; controlled fresh air supply
20' Bulk	2.34	2.29		5.93	2.36	2.34	For dry bulk goods

20’ Box

40’ Box

40’ High Cube

20’ Reefer

40’ Reefer

40’ Reefer Cube

20’ Open Top

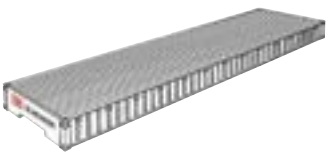
40’ Open Top

20’ Hardtop

40’ Hardtop

20’ Flat

40’ Flat



20’/40’ Platform

20’ Ventilated

20’/40’ Insulated

20’ Bulk

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